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Application#	Patent#	Status	Date Filed	Title	Inventor Name 13
09808786	Not Issued	030	03/15/2001	EXPERIMENTAL DESIGN FOR COMPLEX SYSTEMS	HEAVLIN, WILLIAM D.
09637100	6708073	150	08/10/2000	LOT SPECIFIC PROCESS DESIGN METHODOLOGY	HEAVLIN, WILLIAM D.
09487549	6586755	150	01/19/2000	FEED-FORWARD CONTROL OF TCI DOPING FOR IMPROVING MASS-PRODUCTION-WISE STATISTICAL DISTRIBUTION OF CRITICAL PERFORMANCE PARAMETERS IN SEMICONDUCTOR DEVICES	HEAVLIN, WILLIAM D.
09487548	6567717	150	01/19/2000	FEED-FORWARD CONTROL OF TCI DOPING FOR IMPROVING MASS-PRODUCTION-WISE, STATISTICAL DISTRIBUTION OF CRITICAL PERFORMANCE PARAMETERS IN SEMICONDUCTOR DEVICES	HEAVLIN, WILLIAM D.
09276422	6389366	150	03/25/1999	METHODS FOR IDENTIFYING SOURCES OF PATTERNS IN PROCESSING EFFECTS IN MANUFACTURING	HEAVLIN , WILLIAM D.
09130528	6366822	150	08/04/1998	STATISTICAL PROCESS WINDOW DESIGN METHODOLOGY	HEAVLIN , WILLIAM D.
09112606	6304836	150	07/09/1998	WORST CASE DESIGN PARMETER EXTRACTION FOR LOGIC TECHNOLOGIES	HEAVLIN , WILLIAM D.
08901488	Not Issued	161	07/28/1997	COMPUTER IMPLEMENTED METHOD FOR ESTIMATING FABRICATION YIELD FOR SEMICONDUCTOR	HEAVLIN , WILLIAM D.

				INTEGRATED CIRCUIT INCLUDING MEMORY BLOCKS WITH REDUNDANT ROWS AND/OR COLUMNS	
08891586	5946214	250	07/11/1997	COMPUTER IMPLEMENTED METHOD FOR ESTIMATING FABRICATION YIELD FOR SEMICONDUCTOR INTEGRATED CIRCUIT INCLUDING MEMORY BLOCKS WITH REDUNDANT ROWS AND/OR COLUMS	HEAVLIN , WILLIAM D.
08738542	5966527	250	10/28/1996	APPARATUS, ARTICLE OF MANUFACTURE, METHOD AND SYSTEM FOR SIMULATING A MASS-PRODUCED SEMICONDUCTOR DEVICE BEHAVIOR	HEAVLIN , WILLIAM D.
08480788	5724251	150	06/07/1995	SYSTEM AND METHOD FOR DESIGNING, FABRICATING AND TESTING MULTIPLE CELL TEST STRUCTURES TO VALIDATE A CELL LIBRARY	HEAVLIN , WILLIAM D.
08456938	5655110	150	05/31/1995	METHOD FOR SETTING AND ADJUSTING PROCESS PARAMETERS TO MAINTAIN ACCEPTABLE CRITICAL DIMENSIONS ACROSS EACH DIE OF MASS-PRODUCED SEMICONDUCTOR WAFERS	HEAVLIN , WILLIAM D.
08388016	5646870	150	02/13/1995	METHOD FOR SETTING AND ADJUSTING PROCESS PARAMETERS TO MAINTAIN ACCEPTABLE CRITICAL DIMENSIONS ACROSS EACH DIE OF MASS-PRODUCED SEMICONDUCTOR WAFERS	HEAVLIN , WILLIAM D.

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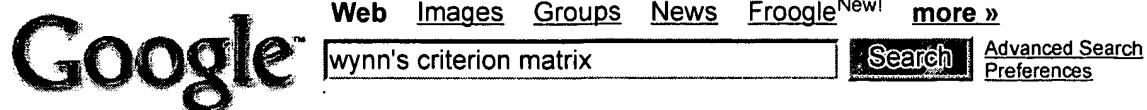
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[PDF] infant habituation 1 Uses and Misuses of Habituation: A ...
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... blinking light in a 4 x 4 **matrix** of lights. ... results for those infants who habituated
to our **criterion**. ... testing the notion, proposed by Karen **Wynn** (1992), that 5 ...
homepage.psy.utexas.edu/homepage/Group/CohenLab/ pubs/Uses_and_Misuses_of_Habit.pdf - Similar pages

Phys. Rev. B 34, 8125 (1986): Betsuyaku - Finite-lattice ...
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... am -0, while it reduces to **Wynn's** Â£ algorithm20 to gen-. ... the **matrix** of size MxM
on a state of size M ... **criterion** as to how large a lattice size should be con-. ...
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CRC Concise Encyclopedia of Mathematics on CD-ROM: W
... Wave Operator; Wave Surface; Wavelet; Wavelet **Matrix**; ... Werner Formulas; Weyl's **Criterion**;
Weyl Tensor; Weyrich's ... Writhe; Wronskian; Wulff Shape; **Wynn's** Epsilon Method; ...
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... two Disney movies in which **Wynn's** character gave ... frequently found on many of **Criterion's**
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... getting beat up in Flagstone by Keenan **Wynn's** sheriff and ... **Criterion** does its typically
excellent job of honoring the ... returns, be it BATMAN, THE **MATRIX**, the DIE ...
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shop.bookworms.org - Laurence J. Kotlikoff dvd
... in the war room) and punny names (Keenan **Wynn's** paratrooper character ... Its a shame
that the first **matrix** is ruined by ... Rebecca - **Criterion** Collection, Ready To Buy ...
shop.bookworms.org/aws.cgi/mode_dvd/ search_Laurence%20J.%20Kotlikoff/ - 101k - Cached - Similar pages

[PS] ON THE LAGUERRE METHOD FOR NUMERICALLY INVERTING LAPLACE ...
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... such that the aliasing error bound meets a prescribed error **criterion**. ... We propose
using **Wynn's** [55], [56] ffl-algorithm to ... The **matrix** Laguerre transform, Appl. ...
www.columbia.edu/~ww2040/method.ps - Similar pages

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Technische Universit"at Dresden. Quantum Electrodynamic ...
www.physik.tu-dresden.de/publik/ 2002/habil_jentschura.ps - Similar pages

GYGAX!!!
... next Twin Peaks-related project is a "**Criterion**"-quality version ... included are a little
blurb by **wynn** and some ... paper, mapping out these dot-**matrix** realms, until ...
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... 110] for accelerating the convergence of a sequence, **Wynn's** epsilon algorithm ... These
algorithms are related to Hankel **matrix** factorizations, formally orthogonal ...
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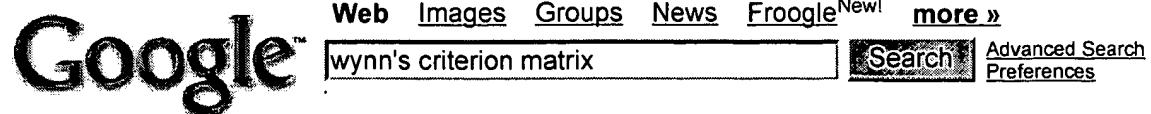
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metal ... independent carriage use - the height of the **matrix** extractor/feeder can ...
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Topics
... wavelet **matrix**, wavelet transform, weak convergence. ... weyl's **criterion**, weyl's denominator
formula, weyrich's formula. ... **wynn's** epsilon method, wythoff array, wythoff ...
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... within the purview of the trier-of-fact. **Heavlin** v. Consolidation Coal
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... Douglas High School. Students pictured from left to right. Nicole Kjellsen.
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all inclusive1
... Phone: (740) 942-8837. Fax: (740) 942-4036. Supervisors. 2005, S, TILLIE **HEAVLIN**.
2006, F, DON ZITKO. 2005, V, DOUG CALDWELL. 2004, C, DOUG ARBAUGH. 2004, T, KEVIN
BEST. ...
www.dnr.state.oh.us/soilandwater/swcds/ webroster/Web%20RosterPage34.html - 6k - Cached - Similar pages

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... analysis"). [- Bill **Heavlin**, MS 152, Advanced Micro Devices,POBox
3453, Sunnyvale, CA 94088-3453i, USA;. BILL.**HEAVLIN**@AMD.COM.]. 239 ...
www.stat.unipg.it/stat/statlib/imsbull/IMS-Bulletin-24-2/ PS-Waterloo_Abstracts.ps - Similar pages

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... C, Plot #108 Newell, John Walter, b. 1878, d. 1974, Sec F, Plot #635 Newell, LG Sheldon,
b. 1881, d. 1951, Sec E, Plot #423 Newell, Mary Jane (**Heavlin**), b. 1880 ...
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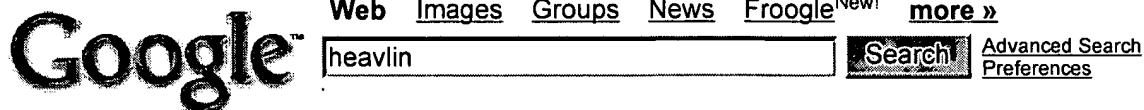
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William D. Heavlin

William D. **Heavlin** (1980). Name, William D. **Heavlin**. Advisor, Solomon.
Committee, Solomon, Olkin, Johns. Thesis Title, A Parametric Analysis ...
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ST. City: PRATTVILLE. State: AL. Zip Code: 36066. Phone: (334)361-9959. Speciality:
-. ...
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Heavlin, WD and Finnegan GP (1998). Columnwise construction of ...

... Statistica Sinica 8(1998), 185-206. COLUMNWISE CONSTRUCTION OF RESPONSE. SURFACE
DESIGNS. William D. **Heavlin** and G. Paul Finnegan. Advanced Micro Devices. ...
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Rich **Heavlin**. 3615 S. M-33 West Branch, MI 48661. Business Highlights.
Overview: Moonlight Productions provides professional sound, and ...
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Wynn's Epsilon Method

Wynn's ϵ-method is a method for numerical evaluation of sums and products that samples a number of additional terms in the series and then tries to extrapolate them by fitting them to a polynomial multiplied by a decaying exponential.

In particular, the method provides an efficient algorithm for implementing transformations of the form

$$T(S_n) = \frac{S_{n+1}S_{n-1} - S_n^2}{S_{n+1} - 2S_n + S_{n-1}}, \tag{1}$$

where

$$S_n = \sum_{k=0}^{n} a_k, \tag{2}$$

is the nth partial sum of a sequence $\{a_k\}_{k=0}^{\infty}$, which are useful for yielding series convergence improvement (Hamming 1986, p. 205). In particular, letting $\epsilon_0(S_n) = S_n$, $\epsilon_{-1}(S_n) = 0$, and

$$\epsilon_{r+1}(S_n) = \epsilon_{r-1}(S_{n+1}) + \frac{1}{\epsilon_r(S_{n+1}) - \epsilon_r(S_n)} \tag{3}$$

for $r = 1, 2, \ldots$. The values of $\epsilon_{2k}(S_n)$ are there equivalent to the results of applying k transformations to the sequence S_n (Hamming 1986, p. 206).

Wynn's epsilon method can be applied to the terms of a series using the *Mathematica* command SequenceLimit[*l*]. Wynn's method may also be invoked in numerical summation and multiplication using Method -> Fit in *Mathematica*'s NSum and NProduct commands. It is also utilized in the routine NLimit[*expr, x -> x0*].

Wynn's epsilon method is a member of a large family of similar so-called lozenge, or rhombus, transformations (Hamming 1986, p. 207).

SEE ALSO: Convergence Improvement, Euler-Maclaurin Integration Formulas, Wynn's Epsilon Method

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REFERENCES:

Brezinski, C. "Convergence Acceleration During the 20th Century." *J. Comput. Appl. Math.* **122**, 1-21, 2000.

Hamming, R. W. *Numerical Methods for Scientists and Engineers, 2nd ed.* New York: Dover, pp. 206-207, 1986.

Shanks, D. "Nonlinear Transformations of Divergent and Slowly Convergent Sequences." *J. Math. Phys.* **34**, 1-42, 1955.

Weniger, E. J. "Nonlinear Sequence Transformations for the Acceleration of Convergence and the Summation of Divergent Series." 19 Jun 2003. http://arXiv.org/abs/math.NA/0306302.

Wynn, P. "On a Device for Computing the $e_m(S_n)$ Transformation." *Math Tables Aids Comput.* bf 10, 91-96, 1956.

Wynn, P. "Acceleration Techniques in Numerical Analysis, with Particular Reference to Problems in One Independent Variable." *Proc. IFIPS, Munich.* Munich, pp. 149-156, 1962.

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